



sentryView™ Camera Configuration Tool

User Manual

Rev. 7/16/2014

Table of Contents

1. What is sentryView™?	4
2. System Specifications	4
3. Basic Setup	5
3.1 Scanning the network for cameras	5
3.2 Upgrade a Camera's Firmware	5
3.3 Automatically configuring the camera's IP address	8
3.4 Manually configuring a camera's IP address	9
3.5 Batch configuring multiple cameras	9
3.6 View a camera's video through the web browser	10
3.7 View a camera's video through sentryView™	11
3.8 Restarting a camera with sentryView™	12
4. Advanced Features (Pro Series Cameras)	13
4.1 Change Camera's Image Settings	13
4.2 Change a Camera's Resolution Settings	14
4.3 Change Camera's IR/ Auto White Balance Settings	14
4.4 Change Camera's Protocol Settings	15
4.5 Change Camera's Multicast Settings	16
4.6 Change Camera's H.264 Settings	16
4.7 Change Camera's Calibration Settings (180 Degree Cameras Only)	17
5. Advanced Features (Mini Series Cameras)	18
5.1 Edit Camera's Settings	18
5.2 Change Camera's Image Settings	19
5.3 Change the Camera's Resolution Settings	20
5.4 Change the Camera's Bitrate Settings	20
5.5 Change Camera's Miscellaneous Settings	21
6. Additional Settings	22
6.1 Return Camera to Default Settings	22
6.2 Reload Camera Settings	23
6.3 Change sentryView's™ Ping Settings	24
6.4 Export Camera Data	24
6.4.1 NVR Software	25
6.4.2 Excel Spreadsheet	25

6.4.3	Text File.....	26
6.5	Find sentryView™ version number	27
6.6	Tool Tips.....	28

1. What is SentryView™?

SentryView™ is the industry's first plug-and-play tool for IP video. You can configure up to 250 cameras at a time. Advanced feature sets include exporting straight to VMS, batch firmware, batch hardware, batch video settings, batch motion detection setup, and more. With this tool you can fully configure a 250 camera deployment in less than 5 minutes. This search software tool will increase productivity in the field, making its use a necessity for anyone installing Sentry360 cameras.

2. System Specifications

Current Version: 3.2.3.6

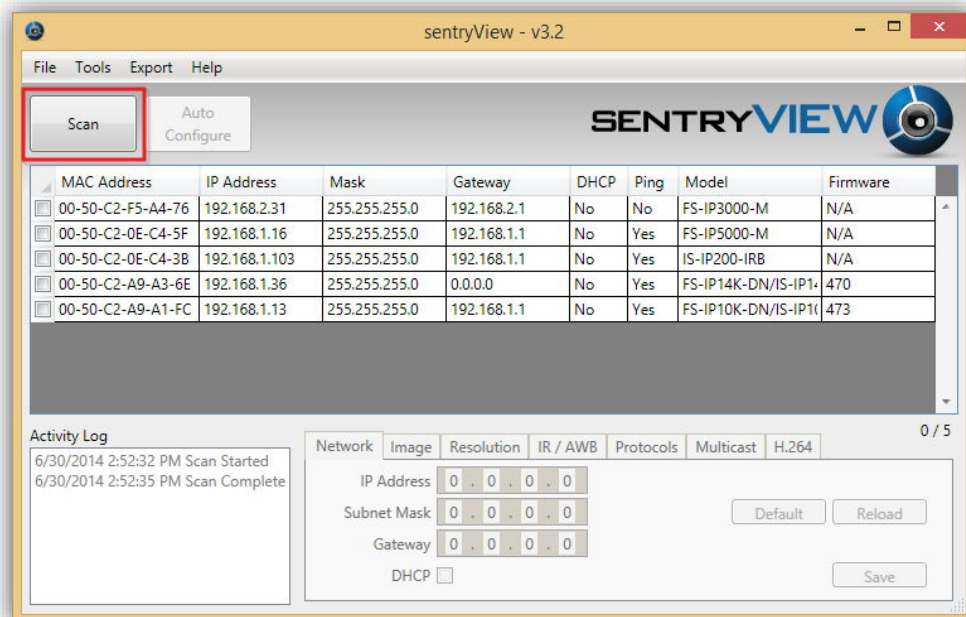
Supported Operating Systems: Windows Vista, Windows 7, Windows Server 2008, Windows 8, Windows Server 2012

Our software can run natively on both x86 and x64 systems. There are currently no Mac OS X or Linux versions available.

3. Basic Setup

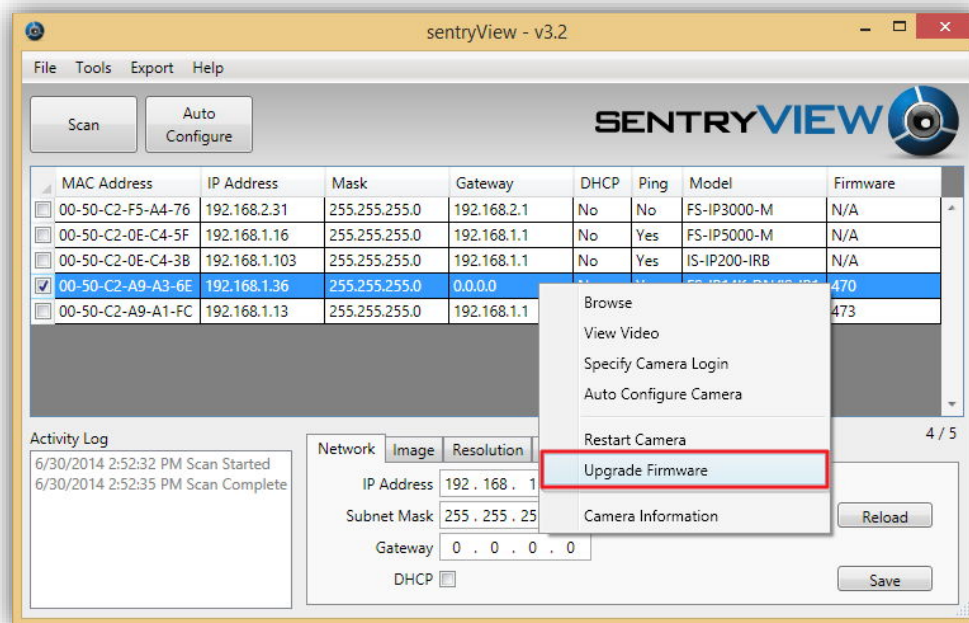
3.1 Scanning the network for cameras

Make sure all Sentry360 cameras are connected correctly to your network. Click **Scan** at the top left of the program (Alternatively, click on **Tools > Scan**). This will search your network for all connected devices. Once the scan is complete, sentryView™ will list the camera's Model, MAC Address, IP Address, and other network information in the main window.

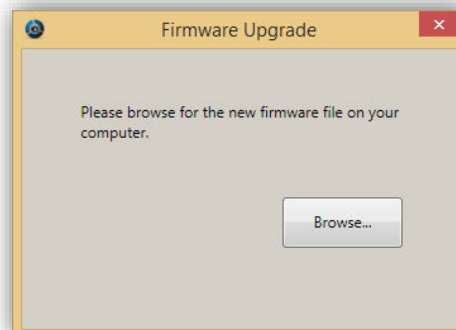


3.2 Upgrade a Camera's Firmware

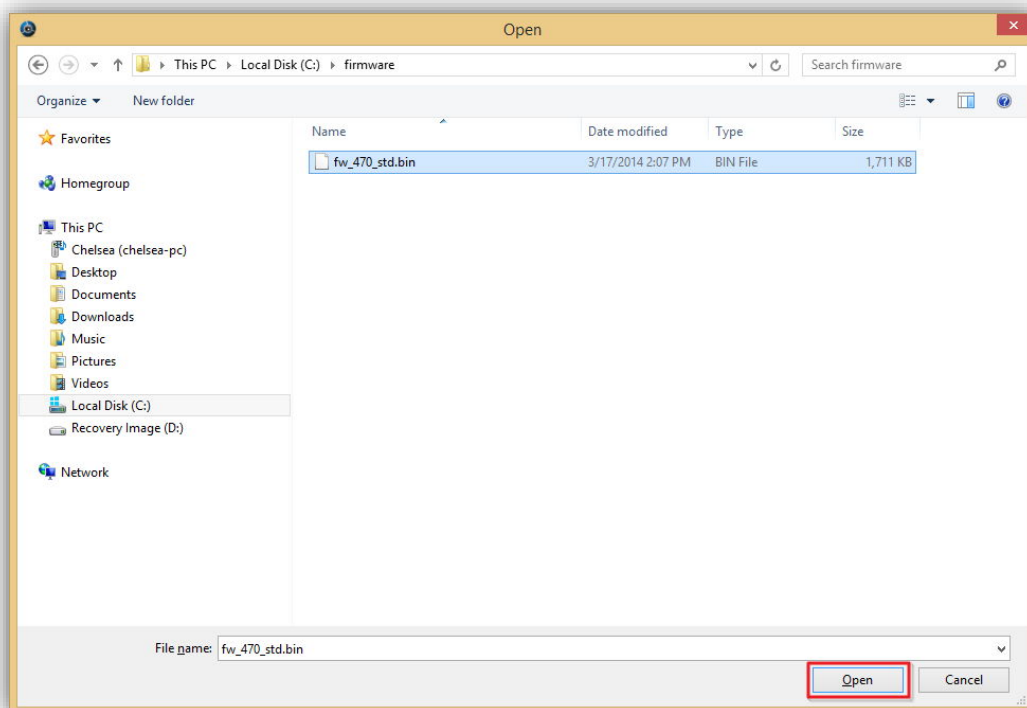
Right click on the camera that you would like to upgrade the firmware of and select **Upgrade Firmware** from the list (Alternatively you can select the camera from the list and click on **Tools > Upgrade Firmware**).



The Firmware Upgrade window will open up. Click **Browse** to choose a firmware file already downloaded on your computer.

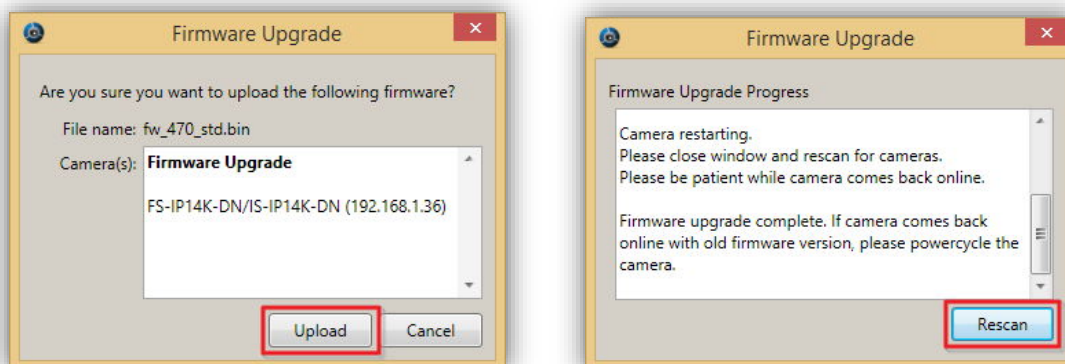


Navigate to the location where the firmware file is saved on your computer and click **Open**.
 (Note: you can find download links to our firmware by visiting our Partner Portal at <http://sentry360.com/Partner/firmware.php>)



(Note: For Mini Series cameras you want to select the “ulmage_userland” file in the firmware folder.)

SentryView™ will ask you to confirm that you want to upload the new firmware. Click **Upload**.

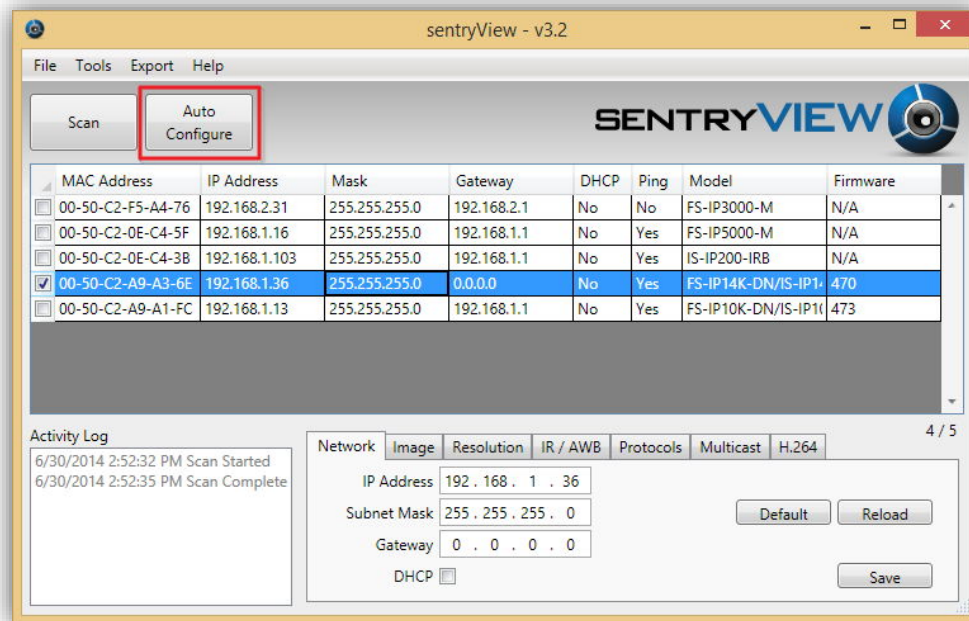


The firmware will then be uploaded to the camera and the camera will reboot.

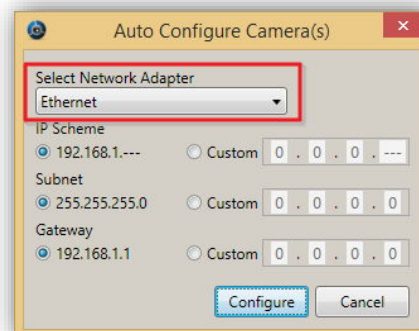
To confirm the firmware has been upgraded, check the number under the **Firmware** column for the camera. (Note: If the camera still shows the same firmware version after scanning, it may require a power cycle. Unplug the camera for 30 seconds, and then reconnect it.)

3.3 Automatically configuring the camera's IP address

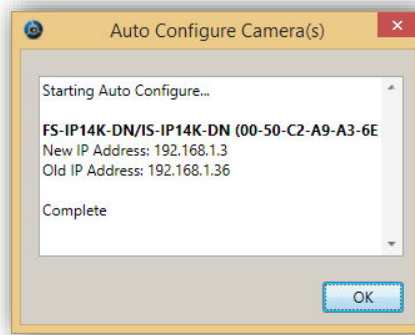
Select the camera you would like to configure. Click the **Auto Configure** button at the top (Alternatively right click the camera on the list and choose **Auto Configure Camera**).



If there are multiple network cards installed, choose the correct adapter that you want your camera to be configured for. Confirm that these network settings are correct. If you need to manually specify any settings, choose the **Custom** option for IP Scheme, Subnet, or Gateway, and enter the information, then click **Configure**.

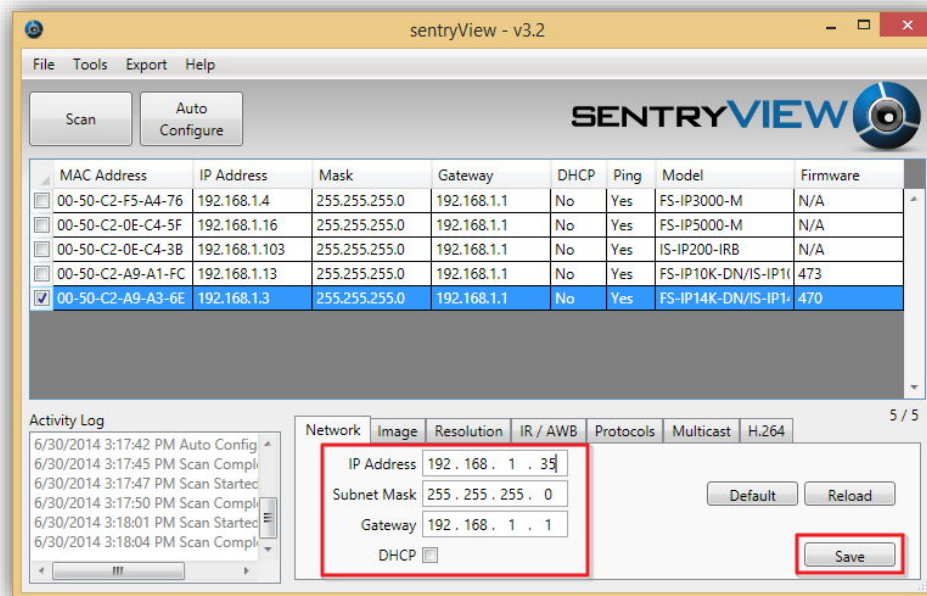


Unless specified otherwise, SentryView™ will automatically assign the camera the next available IP address on that scheme. When complete, a dialog box will confirm your camera's new settings. SentryView™ will then rescan the network.



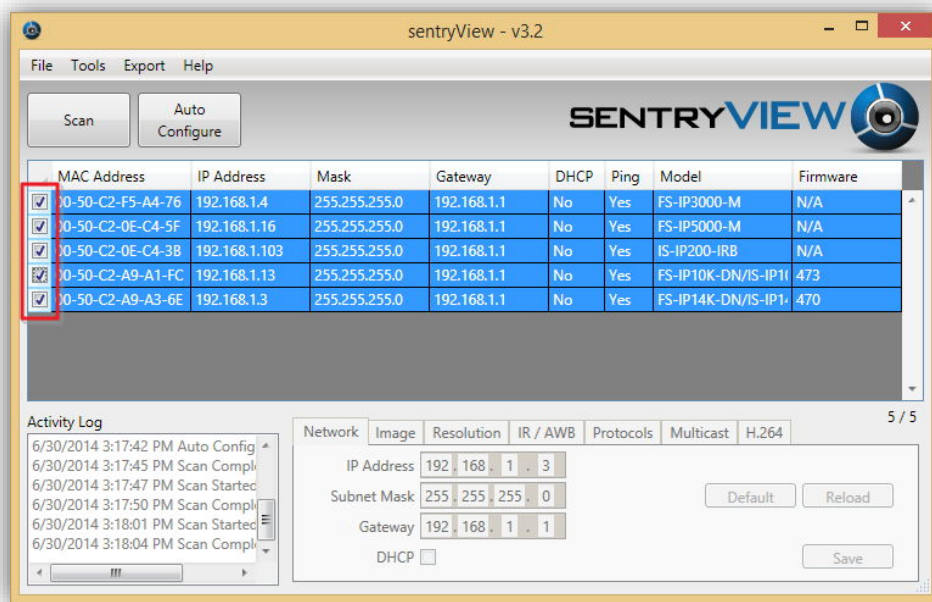
3.4 Manually configuring a camera's IP address

Select the camera you would like to configure. In the Network tab at the bottom, enter the new IP Address, Subnet Mask, and Gateway. If using a DHCP server, check the DHCP box. When the information is entered, click **Save**. SentryView™ will configure the camera's new settings and rescan the network.



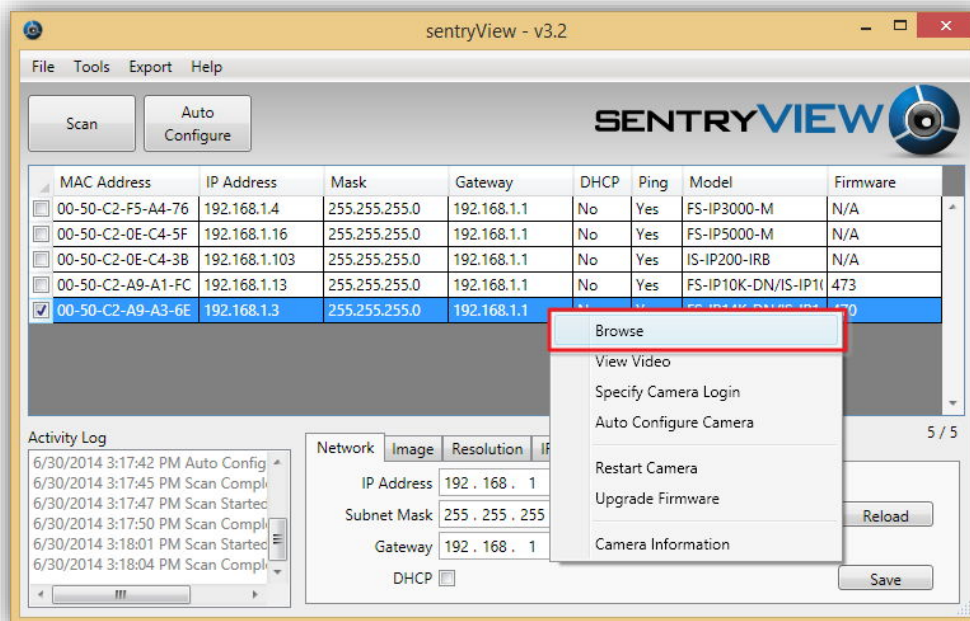
3.5 Batch configuring multiple cameras

To automatically configure multiple cameras, select each camera you want to configure by selecting each with a check mark in the left column. When all cameras are selected, you can configure all of them by following **Step C (Automatically configuring the camera's IP address)** as listed above.



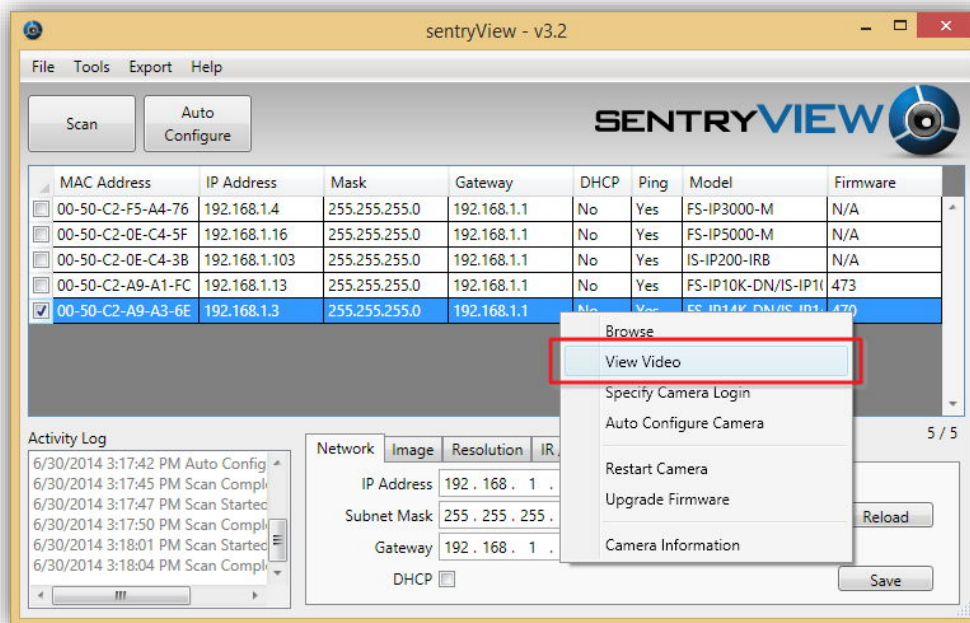
3.6 View a camera's video through the web browser

Right click on a camera and choose **Browse** (Alternatively select a camera and click on **Tools > Browse**). This will open the camera in Internet Explorer. (Note: If opening a Mini Series camera, you will be prompted for a username and password. Unless configured otherwise, the default name will be "Admin" and the password "1234") Consult your camera's manual for further information on using the web interface.



3.7 View a camera's video through sentryView™

Right click on the camera and select **View Video** (Alternatively select a camera and click **Tools > View Video**).

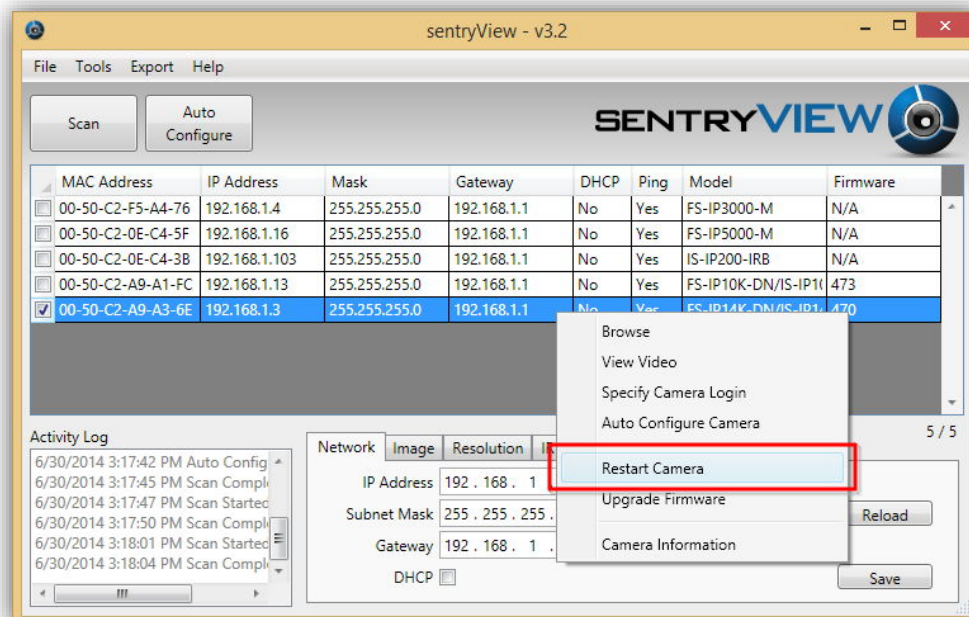


SentryView™ will open up a new window that shows the live video of the camera. (Note: The camera's MJPEG stream must be enabled for Video Preview). The window supports basic digital PTZ functionality using the mouse buttons and scroll wheel.

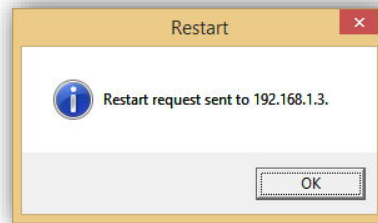


3.8 Restarting a camera with sentryView™

Right click on a camera and select **Restart Camera** (Alternatively select a camera and click **Tools > Restart Camera**).



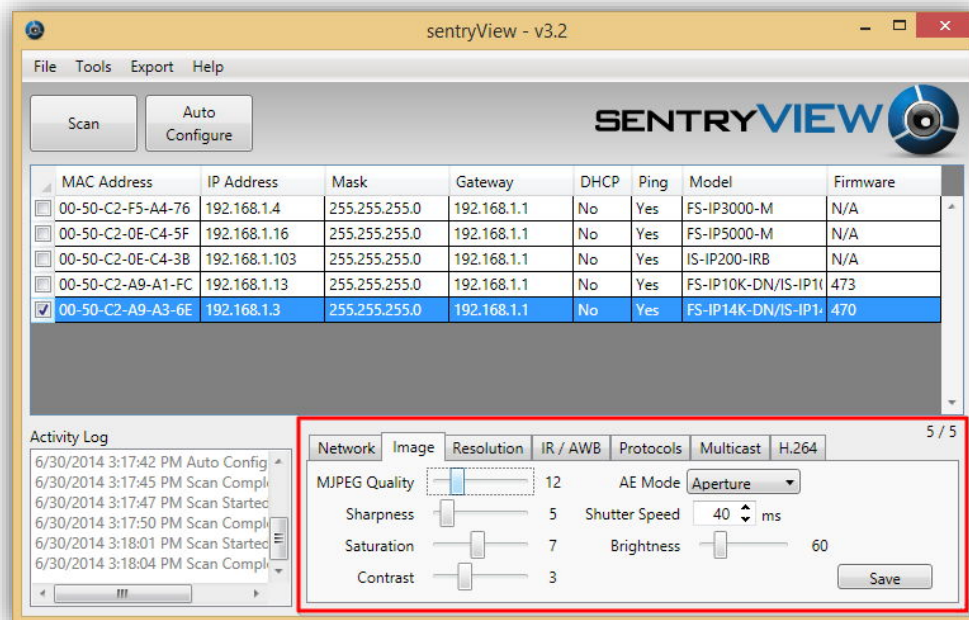
SentryView™ will send a restart signal to the camera and display a window confirming that the restart request has been sent. The camera may take up to a few minutes to reconnect.



4. Advanced Features (Pro Series Cameras)

4.1 Change Camera's Image Settings

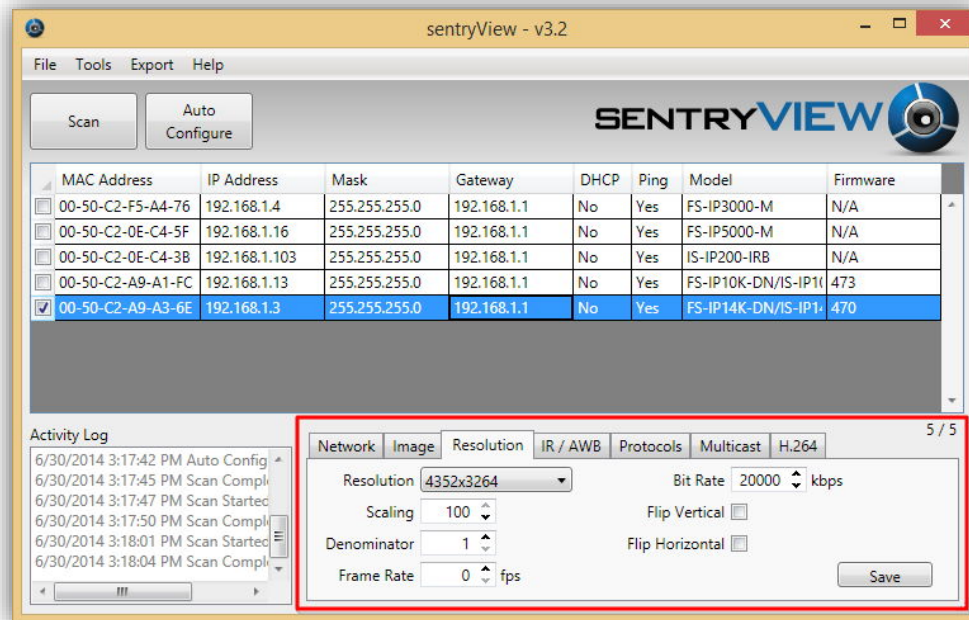
Select the Pro Series camera you wish to change the image settings of and then click on the **Image** tab. In this tab you can adjust the camera's **MJPEG Quality**, **Sharpness**, **Saturation**, **Contrast**, **Auto-Exposure Priority Mode**, **Shutter Speed**, and **Brightness**.



When you are finished changing the camera's settings, click **Save**.

4.2 Change a Camera's Resolution Settings

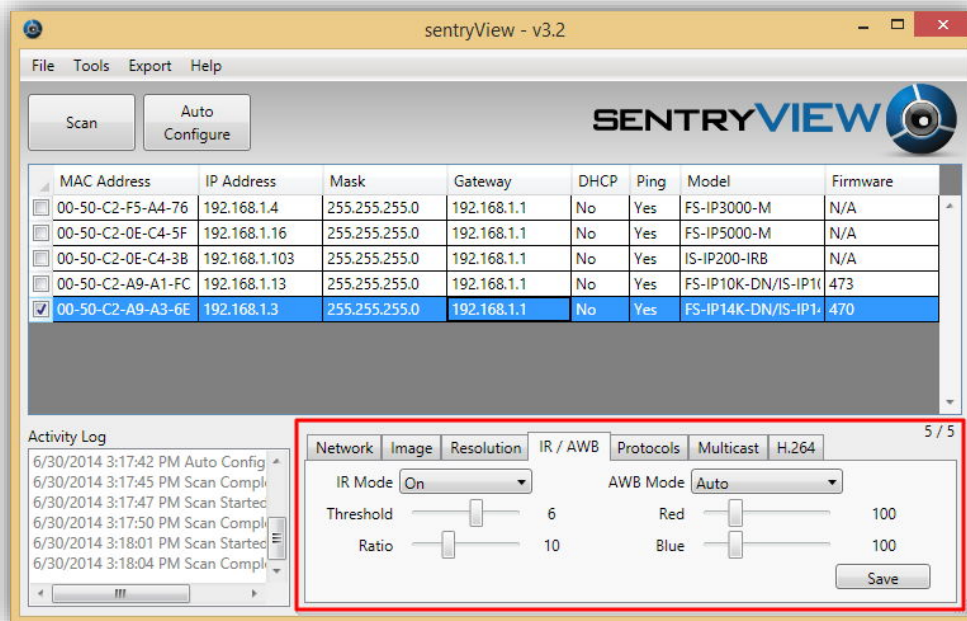
Select the camera you wish to change the Resolution settings of and then click on the **Resolution** tab. In this tab you can adjust the camera's **Resolution**, **Scaling**, **Denominator**, **Frame Rate**, **Bit Rate**, **Vertical Image Flip**, and **Horizontal Image Flip**.



When you are finished changing the camera's settings, click **Save**.

4.3 Change Camera's IR/ Auto White Balance Settings

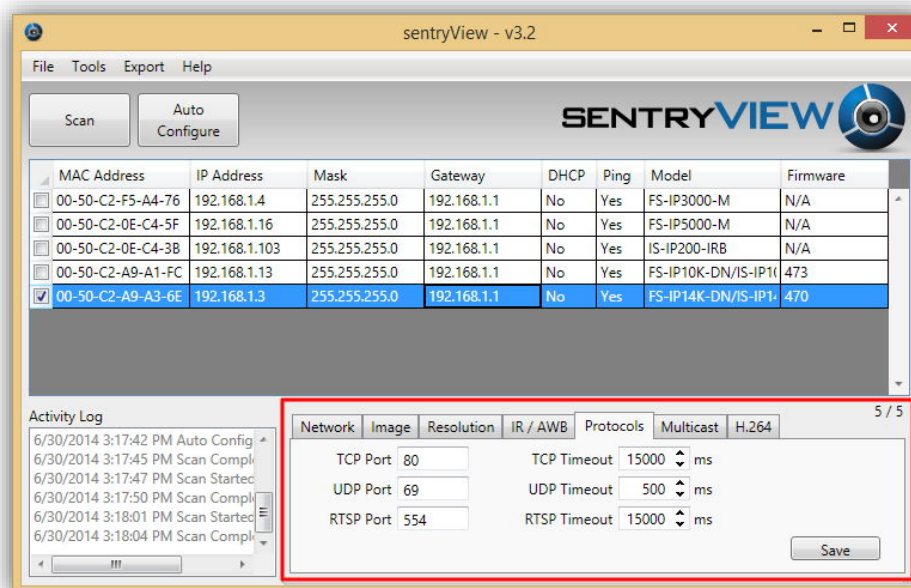
Select the camera you wish to change the IR/White Balance of and then click on the **IR/AWB** tab. In this tab you can adjust the camera's **IR mode**, **Threshold**, **Ratio**, **AWB Mode**, **Red to Green Ratio**, and **Blue to Green Ratio**.



When you are finished changing the camera's settings, click **Save**.

4.4 Change Camera's Protocol Settings

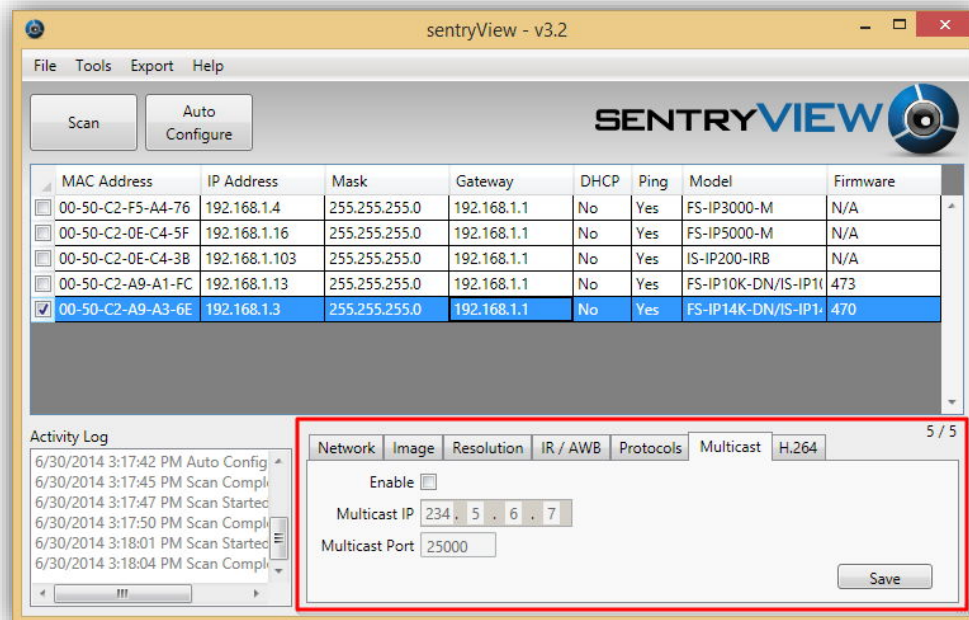
Select the camera you wish to change the Protocol settings of and then click on the Protocols tab. In this tab you can adjust the camera's TCP Port, UDP Port, RTSP Port, TCP Timeout, UDP Timeout, and RTSP Timeout.



When you are finished changing the camera's settings, click **Save**.

4.5 Change Camera's Multicast Settings

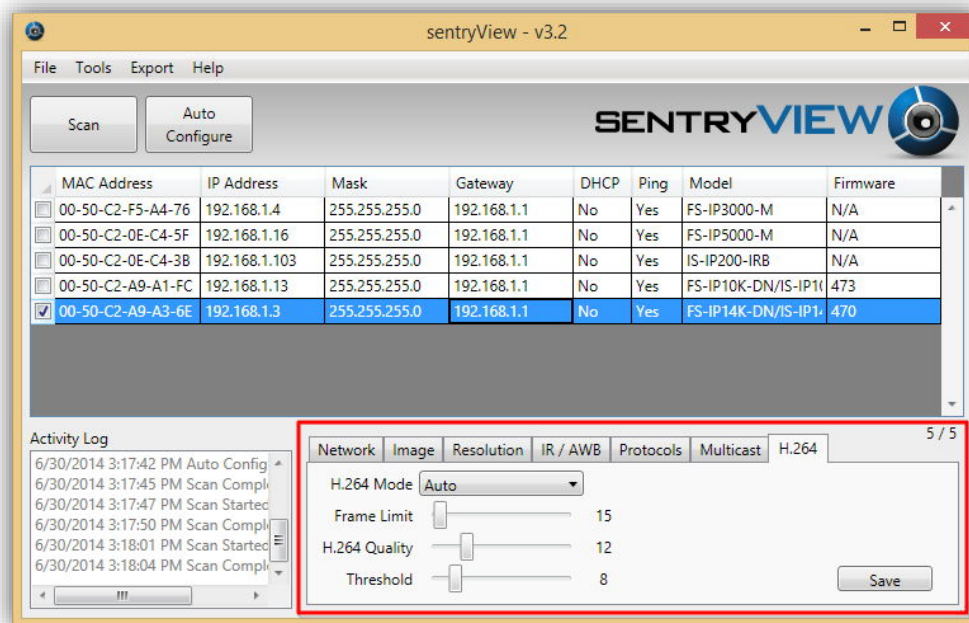
Select the camera you wish to change the Multicast settings of and then click on the **Multicast** tab. In this tab you can adjust the camera's **Multicast Mode**, **Multicast IP Address**, and **Multicast Port**.



When you are finished changing the camera's settings, click **Save**.

4.6 Change Camera's H.264 Settings

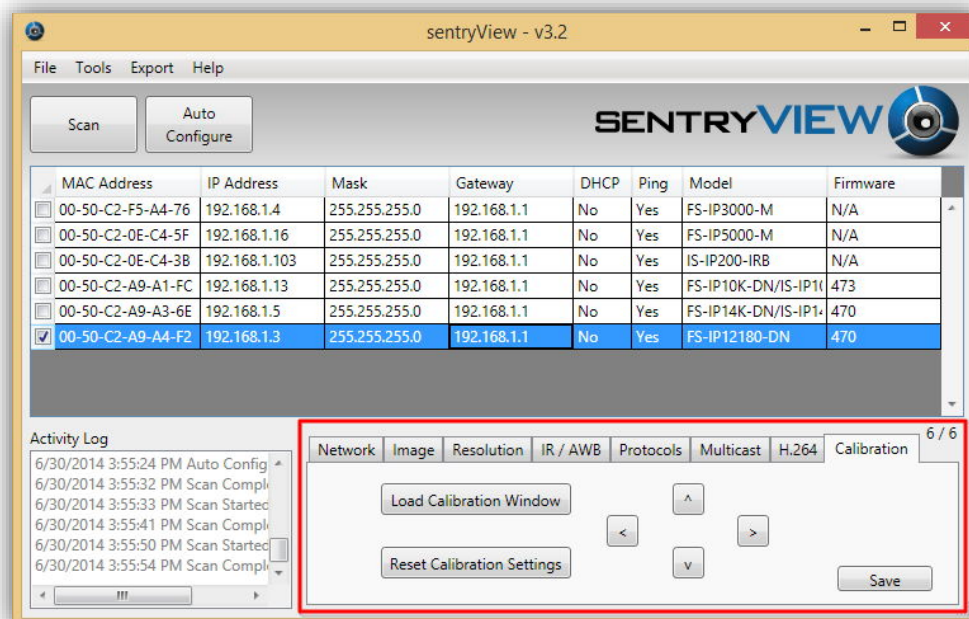
Select the camera you wish to change the H.264 settings of and then click on the **H.264** tab. In this tab you can adjust the camera's **H.264 Mode**, **Frame Limit**, **H.264 Quality**, and **Threshold**.



When you are finished changing the camera's settings, click **Save**.

4.7 Change Camera's Calibration Settings (180 Degree Cameras Only)

Select the camera you wish to change the Calibration settings of and then click on the **Calibration** tab. To correctly calibration an FS-IP8180 camera, click **Load Calibration Window** to bring up a video preview of the camera. Click **Reset Calibration Settings** to re-center the view of the camera. Once centered, click the **Up**, **Down**, **Left**, and **Right** arrow buttons to shift the view in that direction.



When the view is properly calibrated, click **Save**.

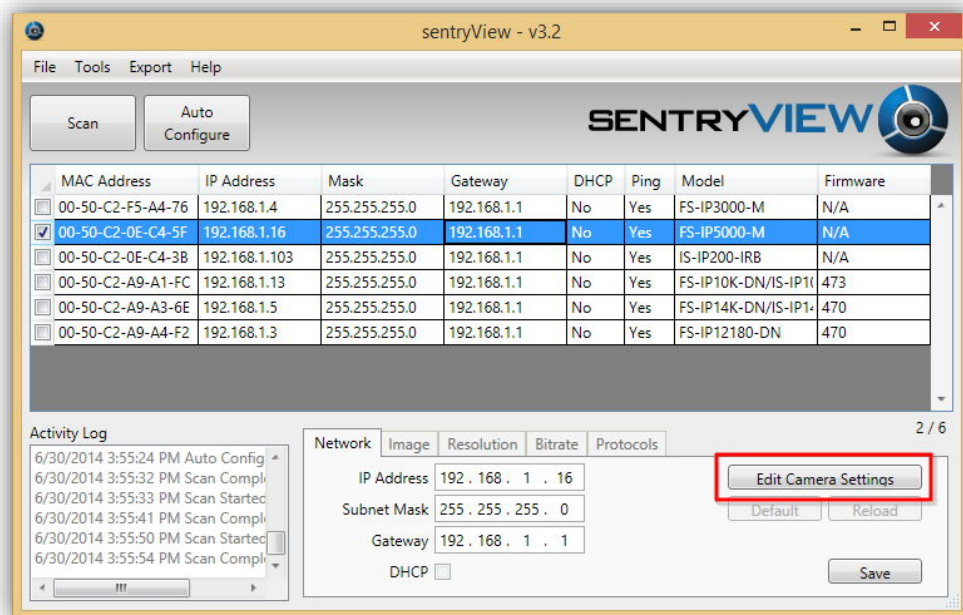
5. Advanced Features (Mini Series Cameras)

Applies to FS-IP3000-M, FS-IP5000-M, FS-IP4180, IS-DM200-IR, IS-DM220, IS-DM220-HB, IS-DM220-IR, IS-DM320-HB, IS-DM320-IR, IS-DM520-HB, IS-DM520-IR, IS-DM240, IS-DM240-V, IS-DM260, IS-DM260-R, IS-IP200-DN, IS-IP290, IS-IP200-IRB, and IS-IP220-IRB-30 camera models.

Please consult your camera's manual for further detailed information on each of the settings listed below.

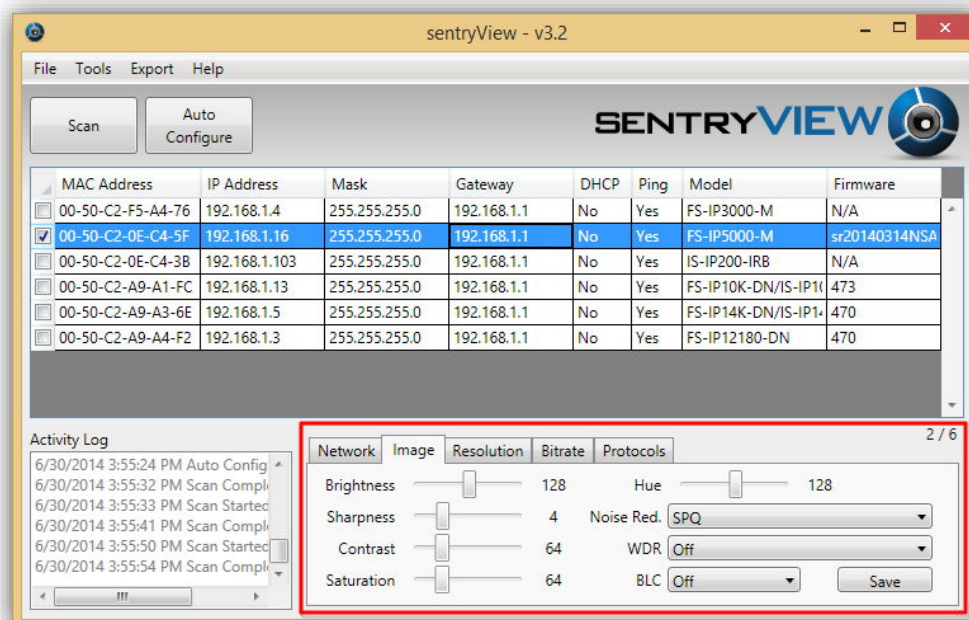
5.1 Edit Camera's Settings

In order to view or edit the settings of a Sentry360 Mini Series Camera, first click **Edit Camera Settings** in the **Network** tab. The camera's settings will not be accessible until this button is clicked.



5.2 Change Camera's Image Settings

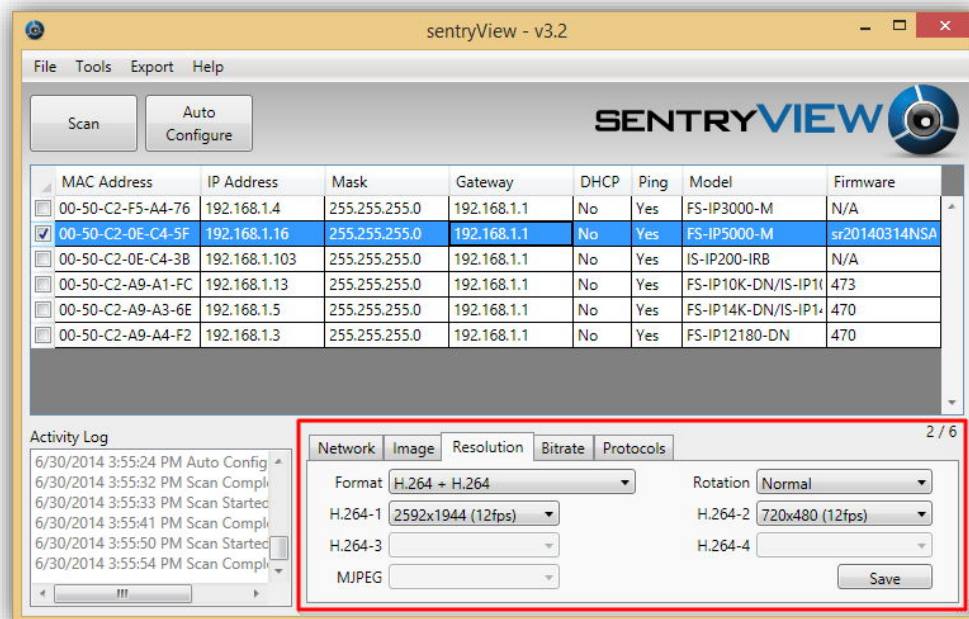
Select the camera you wish to change the Image settings of and then click on the **Image** tab. In this tab you can adjust the camera's **Brightness**, **Sharpness**, **Saturation**, **Contrast**, **Hue**, **WDR**, and **Rotation** Settings.



When you are finished changing the camera's settings, click **Save**.

5.3 Change the Camera's Resolution Settings

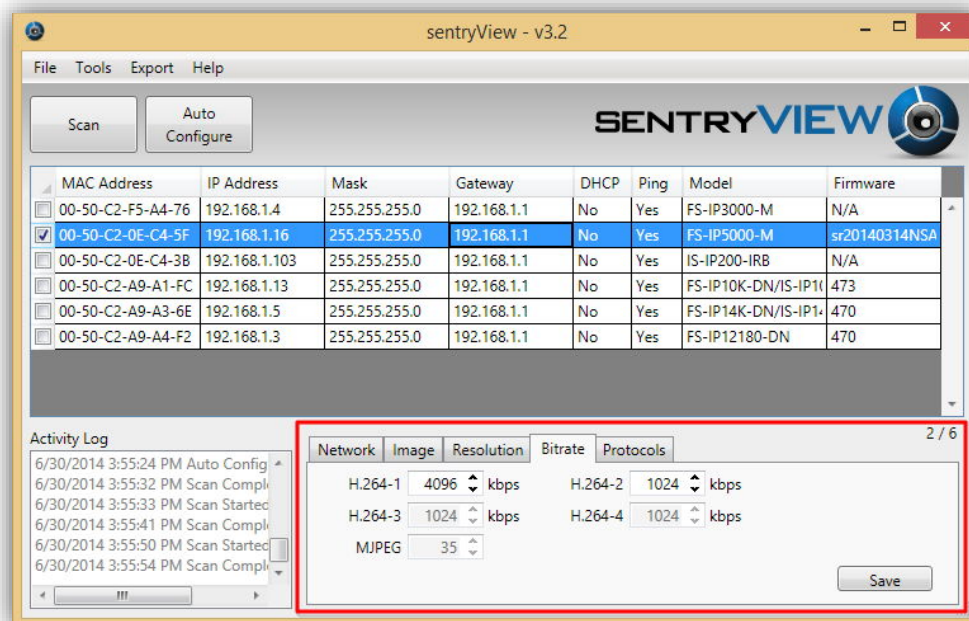
Select the camera you wish to change the resolution settings of and then click on the **Resolution** tab. In this tab you can adjust the camera's compression format and resolution settings.



When you are finished changing the camera's settings, click **Save**.

5.4 Change the Camera's Bitrate Settings

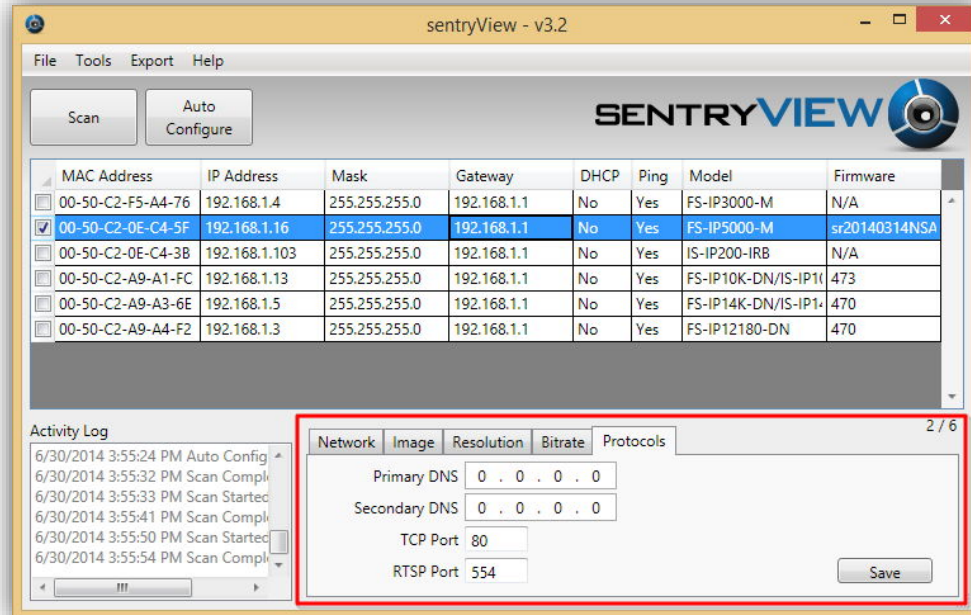
Select the Fullsight/Insight camera you wish to change the Bitrate settings of and click on the **Bitrate** tab. In this tab you can adjust the camera's bitrate settings.



When you are finished changing the camera's settings, click **Save**.

5.5 Change Camera's Miscellaneous Settings

Select the Fullsight/Insight Camera that you would like to change the miscellaneous settings of and click on the **Misc** tab. In this tab you can adjust the camera's **Primary DNS**, **Secondary DNS**, **TCP Port**, **RTSP Port** settings, and toggle the display of date and time on or off.

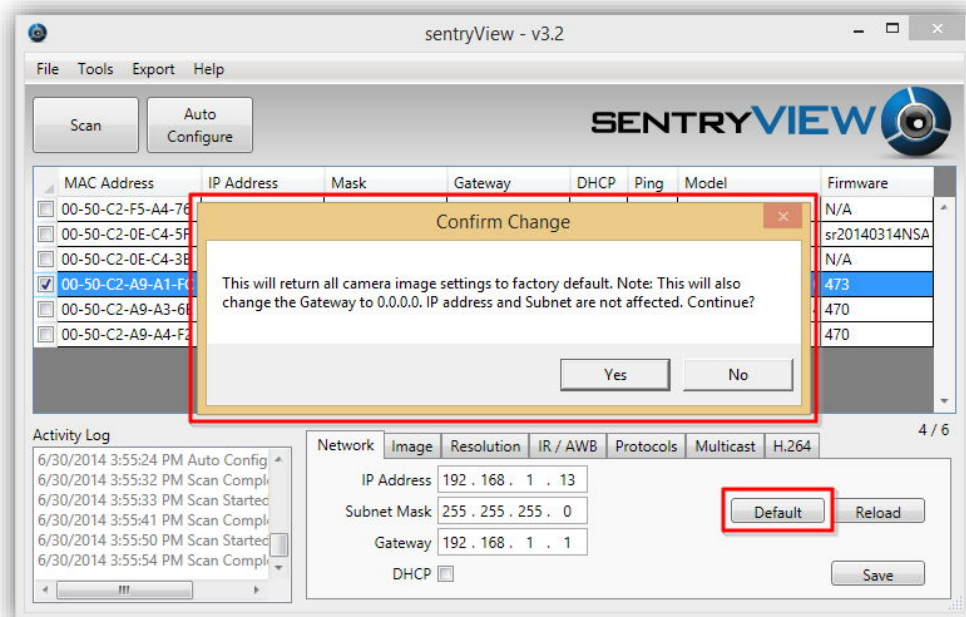


When you are finished changing the camera's settings, click **Save**.

6. Additional Settings

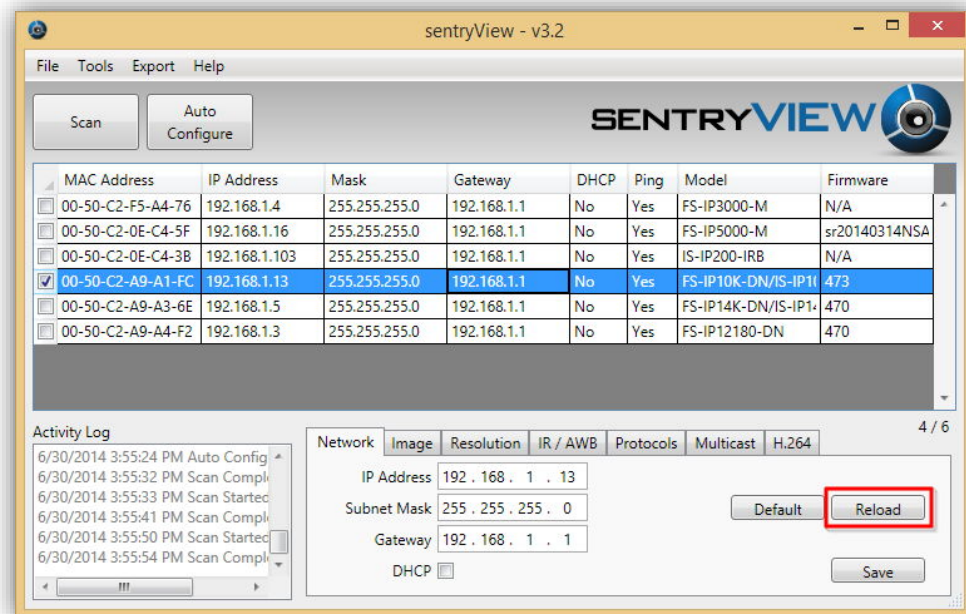
6.1 Return Camera to Default Settings

From the **Network** tab, click the **Default** button for the selected camera. This will return the camera's image settings to factory default. After clicking **Default**, you will be prompted to confirm this choice before continuing. Click **Yes** to continue to return camera to default settings. The camera may take several seconds before it is back online. **Note:** When clicking **Default** for a Sentry360 Pro Series camera, this will also change the Gateway to 0.0.0.0. IP address and Subnet are not affected.



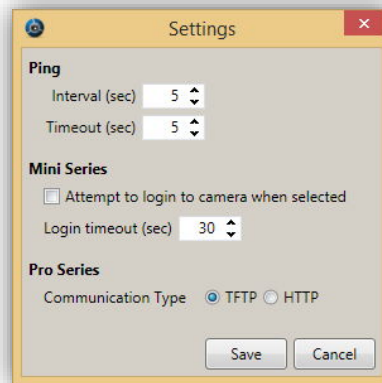
6.2 Reload Camera Settings

From the **Network** tab, click the **Reload** button. This will refresh all of the selected camera's values in sentryView™.



6.3 Change sentryView's™ Ping Settings

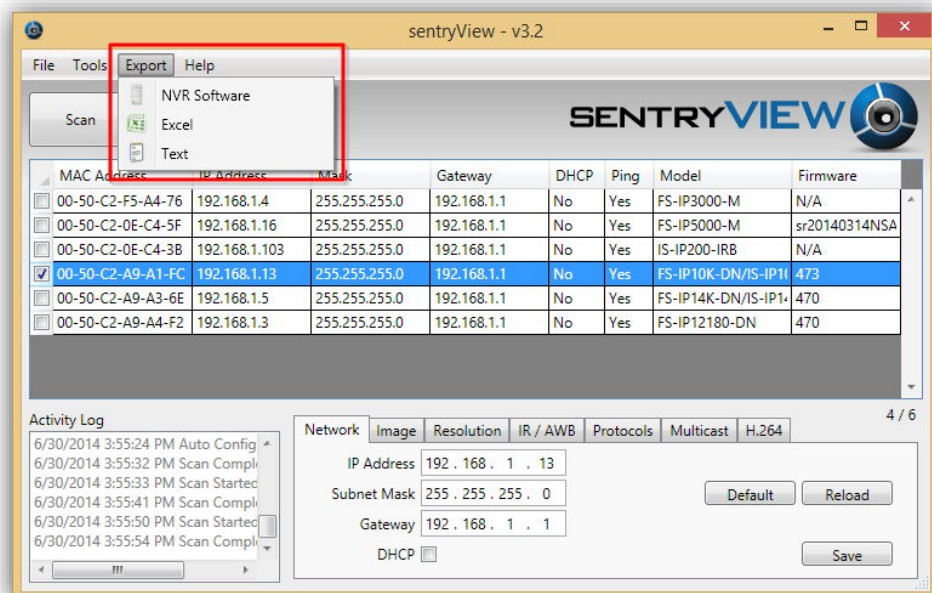
Click **File > Settings** to open sentryView's™ Ping settings. In this new window you can adjust **Ping** settings, Mini Series camera auto login settings, and Pro series communication type



Adjust the settings in this window, and click **Save** when you are complete.

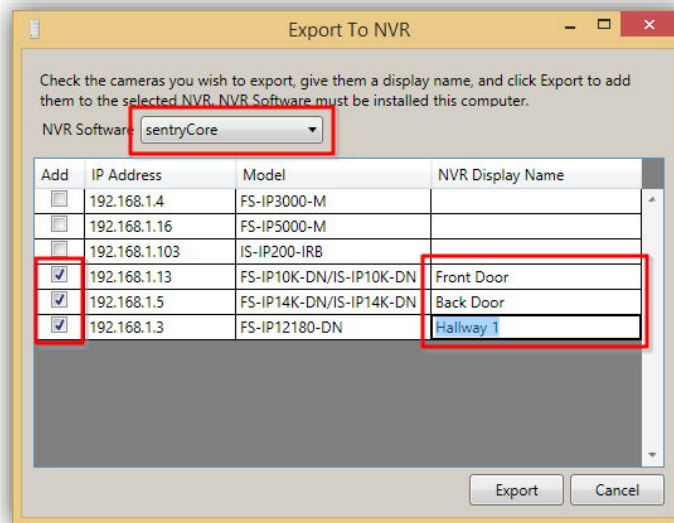
6.4 Export Camera Data

SentryView™ allows the user to export camera information in multiple formats, including Excel spreadsheets, text files, and even direct-to-VMS.



6.4.1 NVR Software

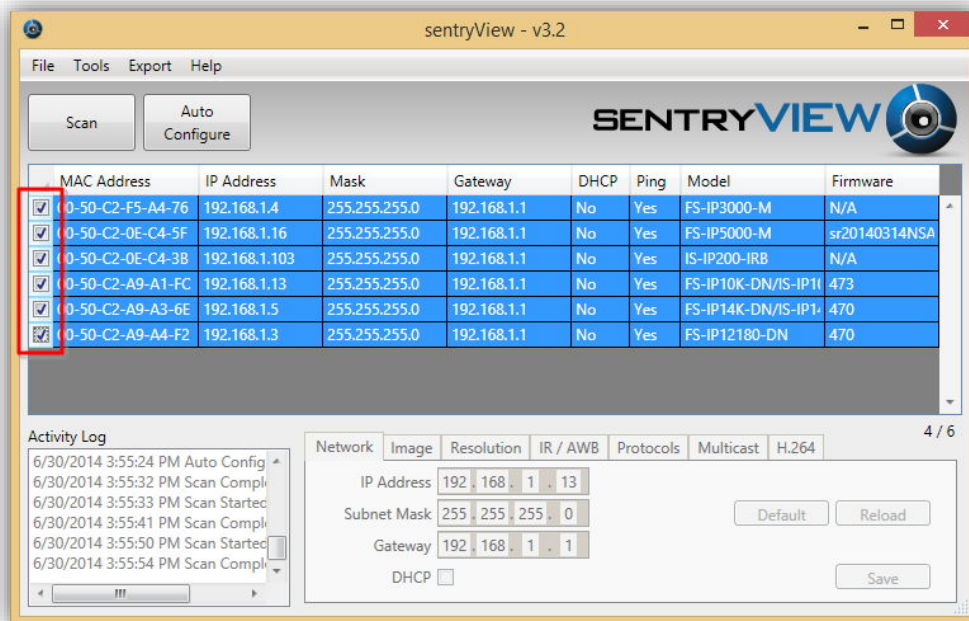
SentryView™ has the ability to export camera configurations to sentryCore™ and Video Insight. In order to use this feature click on **Export > NVR**. Choose either sentryCore™ or Video Insight from the dropdown. Select the camera(s) that you want to export from the list and set a display name for the cameras in the NVR Display Name column. Click **Export**.



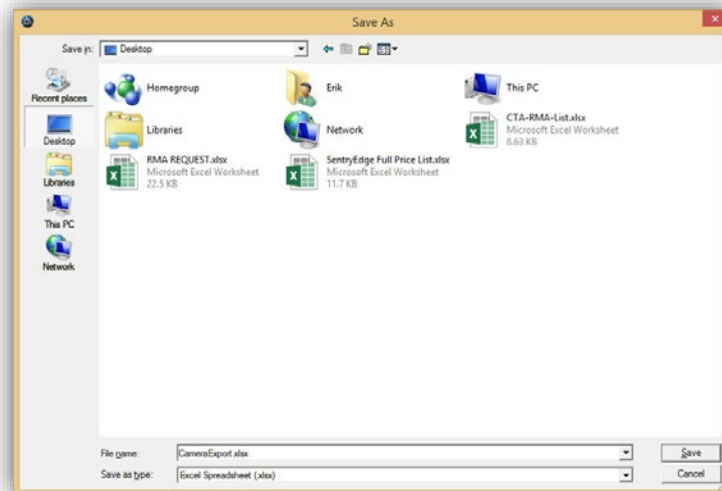
SentryCore™ will add these cameras into the NVR software that you have selected. Launch the NVR software to confirm that the cameras have been added.

6.4.2 Excel Spreadsheet

SentryView™ supports exporting camera data to an Excel spreadsheet. In order to use this feature select the camera(s) that you would like to export data for.



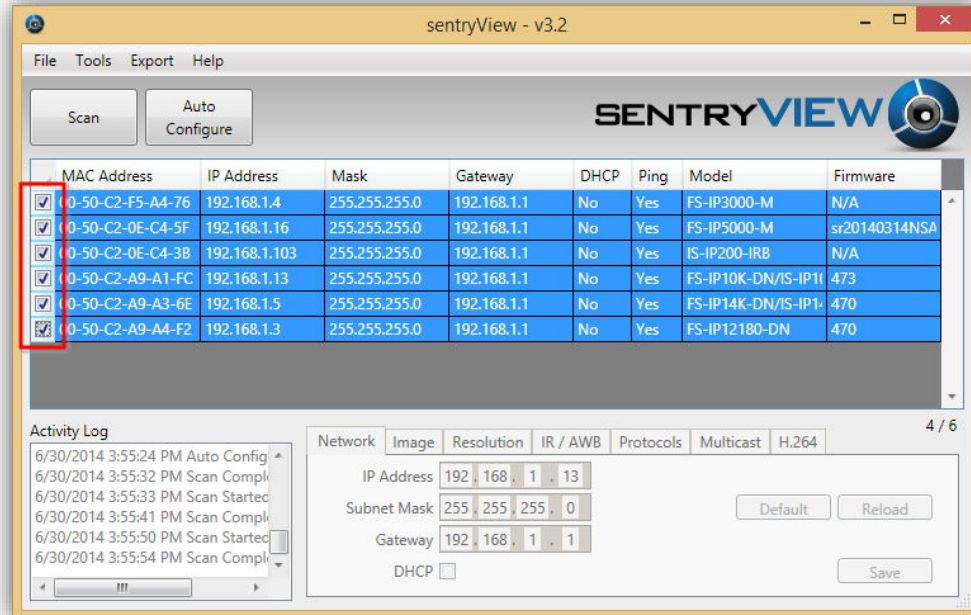
Click on **Export > Excel** and specify the path and name for the spreadsheet then click **Save**.



SentryView™ will create the spreadsheet in the destination you specified.

6.4.3 Text File

SentryView™ supports exporting camera data to text files. In order to use this feature select the camera(s) that you would like to export data for.



Click on **Export > Text** and specify the path and name for the text file then click **Save**.

SentryView™ will create the text file in the destination you specified.

6.5 Find sentryView™ version number

In order to show the version of sentryView™ click on **Help > About sentryView™**.

SentryView™ will open a new window displaying the version number.



6.6 Tool Tips

SentryView™ will display the explanation of a camera setting using tool tips. Using the mouse, hover the pointer over the desired setting's name. A small text box will appear after a few seconds explaining that setting.

